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Education

2002 – 2008 Ph.D, Department of Physics and Technophysics, Vidyasagar University, Midnapore, W.B. India-7221102.

Supervisor: Dr.T.K.Kundu (tkkundu1968@yahoo.com)

1996 – 1998 M.Sc. (Physics), Vidyasagar University
Specialization: Solid State Physics,

1993 – 1996 B.Sc. (Physics Honours), Midnapore College, Vidyasagar University

Teaching Experience

March 2001-May 2010 –Saldiha College , Bankura to the students of B.Sc. (Physics Honours)

May 2010-onwards Vivekananda Mission Mahavidyalaya, to the students of B.Sc. (Physics Honours)

R & D Experience

2006 – 2008 Completed Minor Research **Project** as a **Principal Investigator**

Title: Synthesis and Characterization of Nanorods of BaTiO₃

2015-2017 Completed Minor Research **Project** as a **Principal Investigator**

Title: Preparation and characterization of doped quantum dot sensitized solar cell by low cost SILAR and Electrophoretic Deposition Method.

Publication

1. A. Jana, T. K. Kundu, S. K. Pradhan and D. Chakravorty
“Dielectric behavior of Fe ion doped BaTiO₃ nanoparticles”
Journal of Applied Physics **97** 044311 (2005)
2. A. Jana and T. K. Kundu
“Microstructure and dielectric characteristics of Ni ion doped BaTiO₃ nanoparticles”
Materials Letters **61** 1544 (2007)
3. A. Jana, S. Ram and T. K. Kundu
“Synthesis of BaTiO₃ nanoparticles through a novel chemical route with polymer precursor”
Indian Journal of Physics **78A(1)**, 97(2004)
4. S. Ram, A. Jana and T. K. Kundu
“A new ferroelectric BaTiO₃ phase of orthorhombic crystal structure contained in nanoparticles”
Journal of Applied Physics **102** 054107 2007
5. S. Ram, A. Jana and T. K. Kundu
“Synthesis, characterization, and self-controlled orthorhombic to tetragonal polymorphic transformation in BaTiO₃ nanoparticles”
Modern Physics Letter B **21** 1697 (2007)
6. A. Jana, S. Ram and T. K. Kundu
“BaTiO₃ nanoparticles of orthorhombic structure following a polymer precursor, Part I: nucleation and growth process”
Philosophical Magazine **87** 5485 (2007)
7. A. Jana, S. Ram and T. K. Kundu
BaTiO₃ nanoparticles of orthorhombic structure following a polymer precursor, Part II: Thermodynamics analyses of the different phases.
Philosophical Magazine **87** 5497 (2007)
8. A. Jana and T. K. Kundu
“Doped Barium Titanate Nanoparticles”
Bulletin of Material Science **31** 501(2008)
9. P. Barik, A. Jana and T. K. Kundu

“Influence of Co – ion doping on tetragonal – orthorhombic polymorphic transformation and dielectric behavior in BaTiO₃ nanoparticles”.

Journal of American Ceramic Society 94 [7] 2119 (2011)

10. A.Jana

A Review on Modified TiO₂ Nanostructured Materials in Dye Sensitized Solar Cell.

International Journal of Energetic Materials. 1[1] 10 (2015)